## Fire Station #39 UST Site Assessment Report

#### Seattle UST - North Group

#### Prepared for:

The City of Seattle - Executive Services Department

June 12, 1998



Prepared by

GARRY STRUTHERS ASSOCIATES, INC.

Construction Management ♦ Environmental Sciences ♦ Project Management ♦ Engineering

#### **Executive Summary**

On behalf of the City of Seattle (City), Garry Struthers Associates, Inc. provided site assessment guidance during the decommissioning of the former diesel underground storage tank (UST) at the City's Fire Station #39 site. This site is located at  $12705 - 30^{th}$  Avenue Northeast in Seattle, Washington. This site was registered with the Washington State Department of Ecology (Ecology) with a UST Site ID Number of 7893. The UST is registered with tank name F39-1.

A release has not occurred at this site as based upon the results of the site assessment performed at the time of the UST decommissioning. The UST was permanently closed and removed from the site.

#### Introduction

On behalf of the City of Seattle (City), Garry Struthers Associates, Inc. provided site assessment guidance during the decommissioning of the former diesel underground storage tank (UST) at the City's Fire Station #39 site. This site is located at 12705 – 30<sup>th</sup> Avenue East in Seattle, Washington. This site was registered with the Washington State Department of Ecology (Ecology) with a UST Site ID Number of 7893. The UST is registered with tank name F39-1.

#### Site Background

The site is within the city limits of Seattle, Washington and is located in the SE 1/4 of the SE 1/4 of Section 21 of Township 26 North Range 4 East. The site has been operated as a fire station since 1949. Surrounding properties are commercial (strip mall, bank, and auto shop). A site vicinity map is provided in Figure 1.

The UST at the site is reported to have been in use since 1962. This UST also reportedly was used for gasoline storage up to the early 1990's at which time it was converted to diesel fuel storage for fueling of the facility's fire trucks. Tax assessor records for this property are included as Appendix A of this report.

The diesel UST was located immediately north of the facility's front apparatus ramp. A 2-inch copper water line is immediately north of the location of the former UST. The area of this UST had been covered with landscaping blocks and vegetation. The associated fuel dispenser was located immediately above the western end of the former UST. This UST had a nominal capacity of approximately 550 gallons, was approximately 92-inches long (east-west direction) by 42 inches in diameter, and was being used up until the time of its decommissioning. A site map is provided in Figure 2.

The soils in the vicinity of the UST were native clay. Sand had been used as a backfill material around the UST.

#### Decommissioning and Site Assessment Activities

Decommissioning activities for this UST occurred on June 5, 1998. Mr. Michael McAloon of SAYBR Contractors, Inc. (SAYBR) conducted the decommissioning activities. The Ecology 'Closure and Site Assessment Notice' is included in Appendix B of this report. The top of the UST was located approximately three and a half feet below grade. Decommissioning was accomplished by removal of the UST from the site.

The surface area of the excavation created by the UST removal was approximately 3.5 feet by 8 feet.

Three soil samples were collected from the UST excavation with the aid of the backhoe. A sample collected from the bottom of the excavation was identified as sample number 39B. This sample was collected from approximately seven feet below grade. A composite sample from the southern and western sidewalls was identified as sample number 39AB. A composite sample from the northern and eastern sidewalls was identified as sample number 39WS. Each of the sidewall composite sample locations were at approximately six feet below grade.

Since the dispenser and all product piping were located on top of the UST, no additional samples were collected specifically from the piping.

Soil materials were visually screened for analytes of interest. Samples collected from in-situ soils provided no apparent field indications of a release from the UST system. Laboratory analytical results provided confirmation that contamination was not present in the in-situ soils.

Less than one and a half yards of overburden soil was associated with the UST removal. These materials were located on top of the UST. One soil sample (identification number 390B) was collected from this overburden material. The screening of these soils provided no apparent field indications of fuel spillage related to the UST system. Due to the minimal amount of overburden soil and the lack of any indication of spillage additional sampling of this material was not conducted. Laboratory analytical results provided confirmation that contamination was not present in these soils.

Water was not encountered during the decommissioning and site assessment activities at this site.

The site assessment sampling locations are shown in Figure 3.

The Ecology 'Site Check/Site Assessment Checklist' is included in Appendix B of this report.

#### **Analytical Results**

All of the soil samples were submitted to OnSite Environmental, Inc. of Redmond, Washington for laboratory analysis. Each sample was analyzed by Method WTPH-HCID. Method WTPH-HCID provides qualitative results to confirm the presence or absence of hydrocarbons within specified ranges (i.e. gasoline, diesel, and oil ranges) within the specific sample.

The analytical results confirmed the field observations that a release did not occur from this UST system, as indicated by the non-detected levels of petroleum related hydrocarbons reported by the analytical laboratory. Although Method WTPH-HCID is a qualitative analytical method, quantitative analysis is not required due to the analyte levels being less than the laboratory detection limits.

TABLE 1 - Laboratory Analytical Results

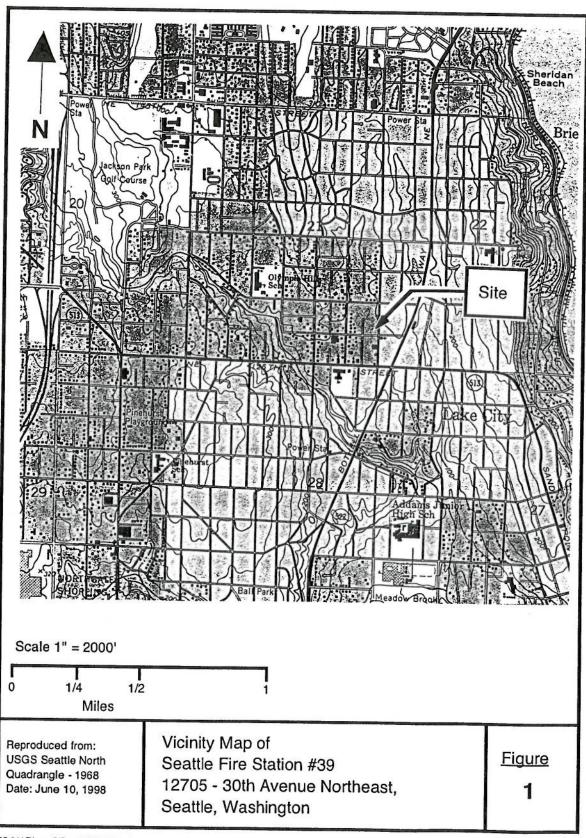
Sample	Sample Depth	Method WTPH-HCID				
Number	(feet below grade)	Gasoline Concentration (mg/Kg)	Diesel Fuel Concentration (mg/Kg)	Oil Concentration (mg/Kg)		
39B	7	<28	<57	<110		
39AB	6	<27	<55	<110		
39WS	6	<27	<55	<110		
39OB	Not Applicable	<27	<55	<110		
MTCA Cleanup Level		100	200	200		

Laboratory analytical data is included as Appendix C of this report.

#### Summary

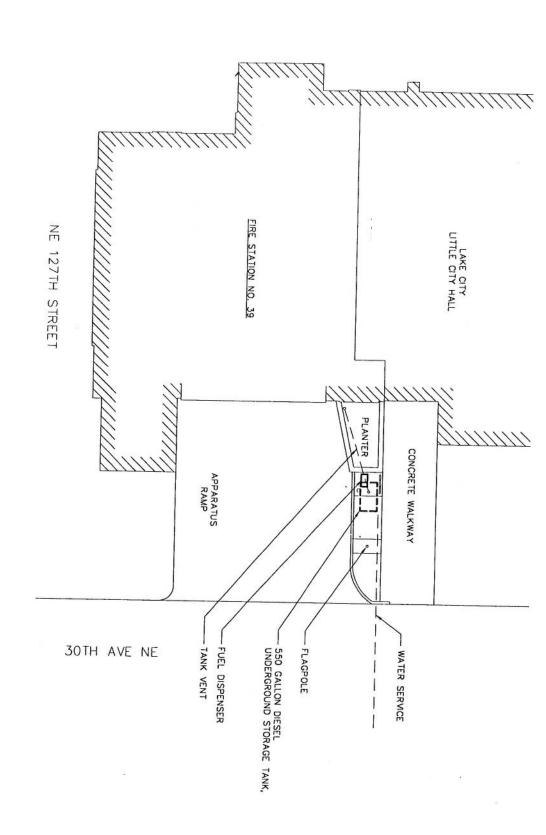
Based upon site assessment observations and associated analytical results, there is no indication of leakage from the former UST facility at this site. The former UST has been decommissioned with permanent removal.

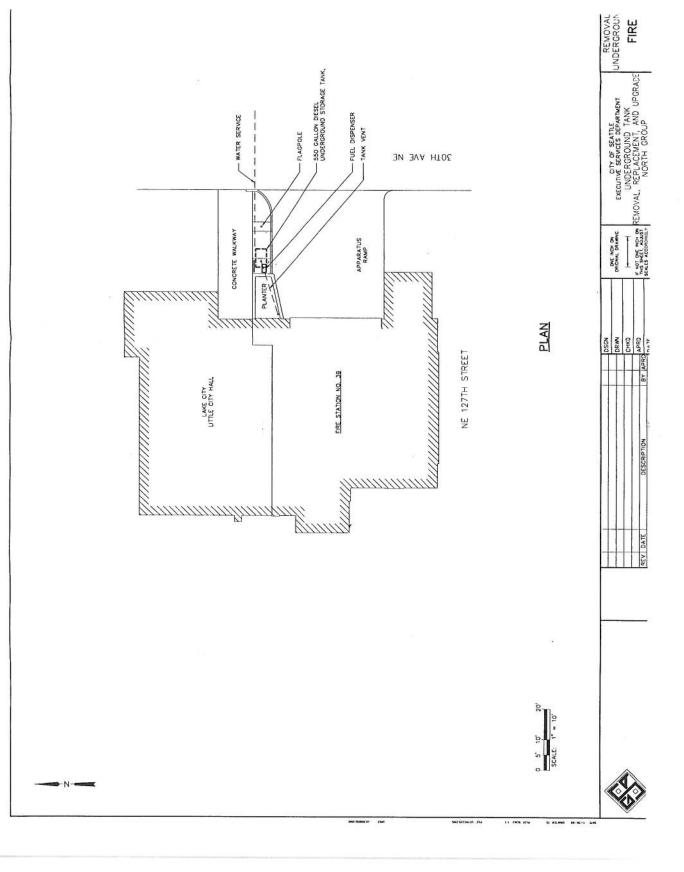
No warranty is expressly stated or implied in this report with regard to the condition of the substrate and groundwater below the surface of this property with the exception of the sampling and analysis of substrate assessed by GSA. This report is not intended to, nor does it purport to encompass every record, report or document available on the site and the surrounding properties. This report reflects our observations of the condition of the property during the time of field activities, and does not cover any other conditions found on the property that were not visible during these field activities.



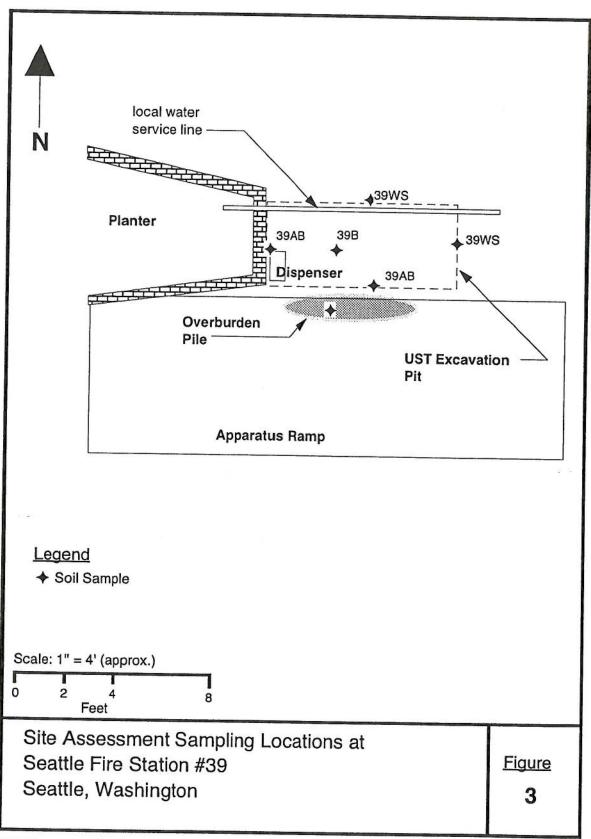
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#### APPENDIX A

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#### APPENDIX B

Closure and Site Assessment Notice

and

Site Check/Site Assessment Checklist

### **UNDERGROUND STORAGE TANK**

## **30 DAY NOTICE**

See back of form for instructions

Please ✓	the appropriate box:	Intent	Ø	Intent	Both
	2	to Install		to Close	

Sile ii	) <b>#:</b>	789	PE ONL			
Owne	r ID Ø:	UB	348			
	Once vali	dated by	Ecology.	this fo	m	-
	Once vali your tempo	dated by erary pern	Ecology, nit for the	this fo	rm se listed	rves belo

receive this document in an elternative for the	
	26-98 Yes
F20-1 Common Capacity Stored Les	Product in if No, Date Tank the Tank Tank Was Approx. t Used (Yes/No) Pumped Tank ID install Date
Fill out this section ONLY if tanks are	being closed. Fill out this section ONLY if tanks are being installed.
Tank Closure Informa	
State	WA Zecode 98118 Telephone (209 439-2144
and Seattle	P.O. Box
Service Company Sayby Construction	_ Contact Name _ Mickey Mc Alcon
Tank Permanent Closure Company (if known).	FIII out this section ONLY if tanks are being closed.
	ZIp Code
City	P.O. Box
Address	DECEIVED
Service Company	Contact Name
Tank Installation Company (if known). Fill out this	
Zip Code 98125 Telephone (206) 386-1439	Zp Code 98 104 Telephone (206) 684-0422
City/State Seattle, WA	City/State Seattle, WA
Site Address 12705 30th Avenue NE	Mailing Address 618 Second Avenue, 14th Fk
(Available from Ecology if the tanks are registered) Site/Business Name Five Station No. 39	UST Owner/Operator City of Seattle
Site ID Number 7839	Owner Information (This form will be returned to this address)
Site information	Owner Information



# UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

438X 2			THE STATE OF THE S	Markey Come.
220	FOR OF	FICE US	E ONLY	8400 211
		Section 1	Section of the second	Madien .
S ROE	<b>6:</b>	Mark Cong.	3.444.7600	*********
		Same Sin	2001.20	THE PERSON
JUNE	BD #:		Arthur Connection	1000 F
499.0		Ordinarios :	A SAN COLORADO	Series

See back of form for instructions

Please the appropriate box(es)  Temporary Tank Closure Change-in-Service	Permanent Tank Closure Site Check/Site Assessment
Site Information	Owner Information
Site ID Number 7893 (Available from Ecology If the tanks are registered)	UST Owner/Operator Lity Of Santue / Ms Pau Base
Site/Business Name SEATTLE FIRE STATION #39	Mailing Address 618 SECUND AVENUE
Site Address 12705 - 30 4 Avenue EAST	ALASALA BUILDING, 14th Floor
City/State SEATTLE WA	City/State STATULE WA 98
Zip Code 98125 Telephone (296) 386-1439	Zip Code 98104 Telephone (206) 684-0477
Owner's Signature	
Service Company AYBR CONTRAC	e-in-Service Company
Certified Supervisor MICHAEL M. ALOON	Decommissioning Certification No. 1042854-26
Supervisor's Signature Lechal of	Ch
Address 17803 51st AVE	\$
SEATUR WA	P.O. Box 98188 Telephone (206) 439 2144
City State	Zip Code
Site Check/S	ite Assessor
Certified Site Assessor FRANKLICK N. LUCA	
Address street 3150 Richards Road South 10	P.O. Box
City BELLEVUE State WA	Zp Code 98005 Telephone (425) 519-0300
	Zp Code 78005 Telephone (475) 519-0300
Tank Information  Tank ID Closure Date Closure Method Tank Co	Contamination Present at the Time of Closure
F39-1 051 000	
101-1 05 DUN 98 REMOVE 550	DIESEL Yes No Unknown Check unknown if no obvious
	contamination was observed and
	sample results have not yet been received from analytical lab.
	Yes No.
	If contamination is present, has the release been reported to the
	appropriate regional office?

To receive this document in an alternative format, contact the TOXICS CLEANUP PROGRAM at 1-800-826-7716 (voice) OR (360) 407-6006 (TDD). ECY 020-94 (Rev. 6/95)

#### Instructions

#### Please Read Carefully

This form is to be completed by the tank owner and submitted to Ecology within 30 days of tank closure. Mark the appropriate box(es) for temporary tank closure, permanent tank closure, change-in-service, or site assessment.

AFTER COMPLETING THIS FORM, RETURN TO:

TOXICS CLEANUP PROGRAM DEPARTMENT OF ECOLOGY P.O. BOX 47656 OLYMPIA, WA 98504-7655

Permanent Closure and Change-In-Service require a site assessment be performed.

#### Site and Owner information

Fill in the site and owner information. Include the Ecology site number, if known; also, be sure to provide telephone numbers so that any problems can be resolved quickly. The tank owner MUST sign this form.

#### Tank Closure/Change-In-Service Company and Site Check/Site Assessor

List the closure company and fill in the site assessor information for permanent closure or change-inservice. Ask to see the closure company supervisor's IFCI Certification and make sure that the certified supervisor signs this form.

Please note: Individuals performing services MUST be certified by the International Fire Code Institute (IFCI), or other nationally recognized association by which they demonstrate appropriate knowledge pertaining to USTs or have passed another qualifying exam approved by the Department.

#### Tank Information and Contamination Present at Time of Closure

Please fill in the tank information requested using tank ID numbers previously reported to Ecology. In the column entitled "Closure Method," indicate what manner of closure was used, such as closure in place or removal. Check the appropriate box(es) indicating if contamination is present and has been reported. Contamination found or suspected at the site must be reported to the appropriate Ecology regional office within 24 hours [see below for telephone numbers]. If contamination is confirmed, a site characterization report must be submitted to the regional office within 90 days; if contamination is not confirmed, then this form, a site assessment checklist, and a site assessment report must be submitted to the above address within 30 days.

Central	Eastern	Southwest	Northwest
(509) 574-2490 (voice)	(509) 456-2926 (voice)	(360) 407-6300 (voice)	(206) 649-7000 (voice)
(509) 454-7673 (TDD)	(509) 458-2055 (TDD)	(360) 407-6306 (TDD)	(206) 649-4259 (TDD)

The following tanks are exempt from notification requirements:

- Farm or residential tanks, 1,100 gallons or less, used to store motor fuel for personal or farm use only. The fuel must not be for resale or used for business purposes.
- Tanks used for storing heating oil that is used on the premises where the tank is located.
- Tanks with a capacity of 110 gallons or less.
- Equipment or machinery tanks such as hydraulic lifts or electrical equipment tanks.
- Emergency overflow tanks, catch basins, or sumps.



#### UNDERGROUND STORAGE TANK Site Check / Site Assessment Checklist

FO	R OFFICE USE ONLY
Site #:	
Owner #:	
· .	

#### INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by IFCI or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSEMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section Department of Ecology PO Box 47655 Olympia WA 98504-7655

		•8
ite ID Number (Available from Eco	plogy if the tanks are registered): 789	13
ite/Business Name: SEATE	LE FIRE STATION #39	
ite Address: 12 705 - 3		
1000	Street	— Telephone: (206) 386-1439
STATIZE CITY	WA	98125
	State	Zip Code
ANK INFORMATION		<i>;</i>
Tank ID No.	Tank Capacity	Substance Stored
F39-1.	550 gal	DIEBRE FUEL
		- Maske Fore
	-	
<u>.</u>	No. of the second secon	
EASON FOR CONDUCTING SITE	CHECK/SITE ASSESSMENT	
	CHECK/SITE ASSESSMENT	
eck one:		
eck one:Investigate suspected rel	ease due to on-site environmental contamir	nation.
eck one:Investigate suspected relInvestigate suspected rel	ease due to on-site environmental contamir	nation.
leck one:  Investigate suspected rel  Investigate suspected rel  Extend temporary closure	ease due to on-site environmental contamir ease due to off-site environmental contamir e of UST system for more than 12 months.	nation.
neck one:  Investigate suspected rel  Investigate suspected rel  Extend temporary closure  UST system undergoing	lease due to on-site environmental contamine due to off-site environmental contamine of UST system for more than 12 months. change-in-service.	nation.
Investigate suspected rel Investigate suspected rel Investigate suspected rel Extend temporary closure UST system undergoing UST system permanently	lease due to on-site environmental contamir lease due to off-site environmental contamir e of UST system for more than 12 months. change-in-service.	nation.
Investigate suspected rel Investigate suspected rel Extend temporary closure UST system undergoing UST system permanently UST system permanently	ease due to on-site environmental contamir lease due to off-site environmental contamir e of UST system for more than 12 months. change-in-service.	nation.
Investigate suspected rel Extend temporary closure UST system undergoing UST system permanently UST system permanently Abandoned tank containing	lease due to on-site environmental contamir lease due to off-site environmental contamir e of UST system for more than 12 months. change-in-service. v closed-in service. v closed with tank removed.	nation.
Investigate suspected rel Investigate suspected rel Investigate suspected rel Extend temporary closure UST system undergoing UST system permanently UST system permanently Abandoned tank containing	ease due to on-site environmental contamir lease due to off-site environmental contamir e of UST system for more than 12 months. change-in-service.	nation.

CUTOKI IOT		
CHECKLIST		
Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.		
1. The location of the UST site is shown on a vicinity map.	YES	NO
2. A brief summary of information obtained during the site in a si	A	
(199 Godini G.Z in site assessment guidance)	37	
3. A summary of UST system data is provided. (see Section 3.1.)		
4. The soils characteristics at the UST site are described. (see Section 5.2)	II.	
5. Is there any apparent groundwater in the tank excavation?	<i>37</i>	1-
6. A brief description of the surrounding land use is provided. (see Section 3.1)		TI
<ol> <li>Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.</li> </ol>	和	
8. A sketch or sketches showing the following items is provided:	1	
- location and ID number for all field samples collected	771	
- groundwater samples distinguished from soil samples (if any limbte)	pt.	
- samples collected from stockpiled excavated soil		_
- tank and piping locations and limits of excavation pit	24	
- adjacent structures and streets	W	
- approximate locations of any on-site and nearby utilities	#	
<ol> <li>If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)</li> </ol>	7	
<ol> <li>A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that</li> </ol>	72	
11. Any factors that may have compromised the quality of the data or validity of the results are described.	77	$\dashv$
	15	
<ol> <li>The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred.</li> </ol>	-	67
SITE ASSESSOR INFORMATION		$\neg$
Frederick N. how Gener Starting Services		
Person registered with Ecology  Firm Affiliated with	ases in	<u></u>
Business Address: 3/50 Programs Page Sand		
BELLEVUE Street Street Telephone: (425) 519	-0300	2
City WA 9800	25	
State Zip Co	ode	_
Thereby certify that I have been in responsible charge of performing the site check/site assessment described above submitting false information are subject to penalties under Chapter 173.360 WAC.	. Persons	; .

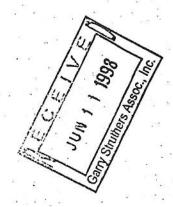
Signature of Person Registered with Ecology

Date

#### APPENDIX C

Laboratory Analytical Data





June 10, 1998

Kevin Dour Garry Struthers Associates, Inc. 3150 Richards Road, Suite 100 Bellevue, WA 98005-4446

Re: Analytical Data for Project 95-044 Phase 5

Laboratory Reference No. 9806-051

#### Dear Kevin:

Enclosed are the analytical results and associated quality control data for samples submitted on June 5, 1998.

The standard policy of OnSite Environmental Inc., is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister Project Chemist

**Enclosures** 

Date Extracted: 6-5-98 Date Analyzed: 6-8-98

Matrix:

Soil

Units:

mg/Kg (ppm)

Client ID:	39B	39AB	2014/0
Lab ID:	06-051-01	06-051-02	39WS 06-051-03
Gas C7-C12:	ND	ND	ND
PQL:	28	27	27
Diesel Fuel C12-C24:	ND .	ND	ND
PQL:	57	55	55
Heavy Oil C24-C34:	ND	ND	ND
PQL:	110	110	110
Surrogate Recovery:			
o-Terphenyl	95%	101%	101%
			10170

#### NWTPH-HCID

Date Extracted: 6-5-98
Date Analyzed: 6-8-98

Matrix: Soil

Units: mg/Kg (ppm)

Client ID: 390B Lab ID: 06-051-04

Gas C7-C12: ND PQL: 27

Diesel Fuel C12-C24: ND PQL: 55

Heavy Oil C24-C34: ND PQL: 110

Surrogate Recovery:

o-Terphenyl 99%

Flags:

#### NWTPH-HCID METHOD BLANK QUALITY CONTROL

Date Extracted: 6-5-98 Date Analyzed: 6-8-98

Matrix: Soil -

Units: mg/Kg (ppm)

Lab ID: MB0605S1

Gas C7-C12: ND PQL: 25

Diesel Fuel C12-C24: ND . PQL: 50

Heavy Oil C24-C34: ND PQL: 100

Surrogate Recovery:

o-Terphenyl 100%

Flags

Date Analyzed: 6-5-98

#### % MOISTURE

			- 7	AND CONTRACTOR OF THE PARTY OF
Client ID		Lab ID		% Moisture
39B		06-051-01		12
39AB		06-051-02		9.0
39WS		06-051-03		9.0
39OB	1 m = 4	06-051-04		9.0



#### DATA QUALIFIERS AND ABBREVIATIONS

A - Due to high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
B - The analyte indicated was also found in the blank sample.
C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations a within five times the quantitation limit.
D - Data from 1: dilution.
E - The value reported exceeds the quantitation range, and is an estimate.
F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
G - Insufficient sample quantity for duplicate analysis.
J - The value reported was below the practical quantitation limit. The value is an estimate.
K - Sample duplicate RPD is outside control limits due to sample inhomogeniety. The sample was re- extracted and re-analyzed with similar results.
L - Quantitated from C7-C34 as diesel fuel #2.
M - Predominantly range hydrocarbons present in the sample.
N - Hydrocarbons in the gasoline range (C7-toluene) are present in the sample which are elevating the diesel result.
O - Hydrocarbons in the heavy oil range (>C24) are present in the sample which are elevating the diesel result.
P - Hydrocarbons in the diesel range (C12-C24) are present in the sample which are elevating the oil resul
Q - The RPD of the results between the two columns is greater than 25.
R - Hydrocarbons outside the defined gasoline range are present in the sample and are elevating the gasoline result.
S - Surrogate recovery data is not available due to the necessary dilution of the sample.
T - The sample chromatogram is not similar to a typical
U - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
Y - Acid Cleaned.
Z - Interferences were present which prevented the quantitation of the analyte below the detection limit reported.
ND - Not Detected MRL - Method Reporting Limit PQL - Practical Quantitation

# **Chain of Gustody**

X % Moisture Laboratory No. Requested Analysis EPH. TCLP Metals COMMENTS: Total RCRA Metals (8) PCB's by 8081/608 DISTRIBUTION LEGEND: White - OnSite Copy Yellow - Report Copy Pink - Client Copy 大山大 Halogenated Volatiles by 8260 Project Chemist: DATE TIME NWTPH-Gx/BTEX имтрн-нспр # of Cont N N ☐ Same Day (Check One) Turn Around Requested X 24 Hours ☐ 48 Hours (other) □ Standard Sampled Matrix 1026 2101 845/0 1033 633 DATE REVIEWED RECEIVED BY RECEIVED BY 8/5/9 86/5/9 8449 14924 NE 31st Circle . Redmond, WA 98052 Fax: (425) 885-4603 • Phone: (425) 883-3881 **Environmental Inc.** FIRM FIRM TIME 1350 DATE P TIME Sample Identification **Insite** Marin Dove. 398 39425 3948 40-56 3908 3 Company: RELINQUISHED BY Project Manager REVIEWED BY Lab 10 FIRM